

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058090.D
 Acq On : 15 Sep 2019 14:38
 Operator : JC/SP
 Sample : K4695-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:41:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	314931	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	532379	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	489356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	259460	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	363808	57.04	ug/l	0.00
Spiked Amount			Recovery	=	114.08%	
35) Dibromofluoromethane	7.58	113	249919	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
50) Toluene-d8	10.08	98	992088	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.41	95	331490	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	

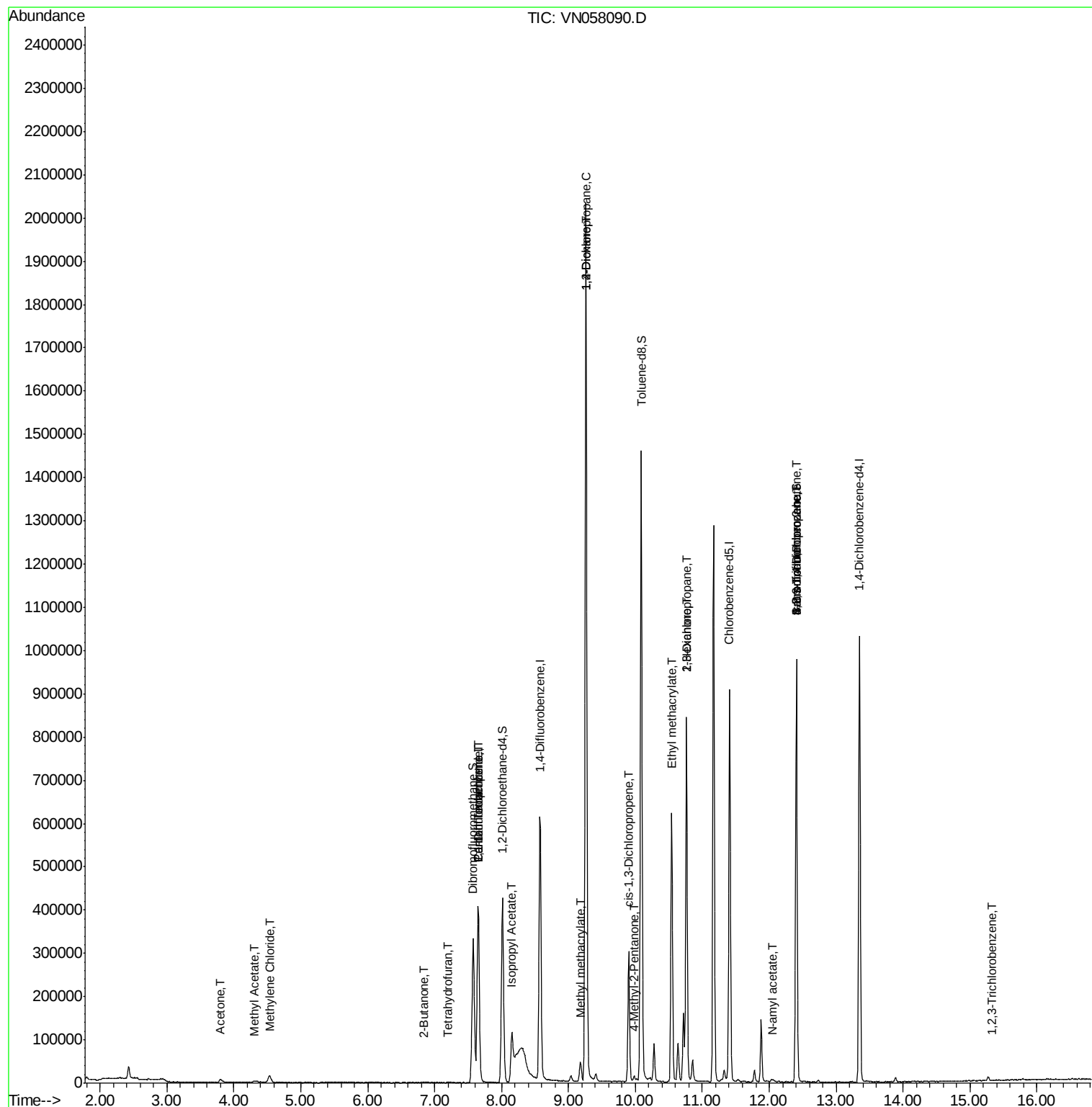
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	262	Below Cal	#	2
16) Acetone	3.80	43	14779	7.068	ug/l #	84
18) Methyl Acetate	4.31	43	4093	0.734	ug/l #	82
20) Methylene Chloride	4.54	84	11540	1.710	ug/l	92
25) 2-Butanone	6.84	43	2108	0.697	ug/l #	49
29) Tetrahydrofuran	7.19	42	624	0.335	ug/l #	64
31) Cyclohexane	7.65	56	8736	Below Cal	#	26
36) 1,1-Dichloropropene	7.65	75	28269	4.579	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32951	5.845	ug/l #	15
43) Isopropyl Acetate	8.15	43	155118	14.460	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	2219	0.410	ug/l #	44
48) Methyl methacrylate	9.18	41	7606	1.398	ug/l #	13
49) 1,4-Dioxane	9.26	88	231	2.510	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	9771	1.539	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	50602	6.668	ug/l #	68
56) Ethyl methacrylate	10.54	69	2292	0.307	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8707	1.019	ug/l #	43
59) 2-Hexanone	10.76	43	126919	26.673	ug/l #	53
71) Bromoform	12.41	173	886	0.320	ug/l #	1
74) N-amyl acetate	12.03	43	2007	0.229	ug/l #	57
76) 1,2,3-Trichloropropane	12.41	75	180008	30.669	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	180008	107.924	ug/l #	6
95) Naphthalene	15.14	128	925	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	33	1.004	ug/l #	9

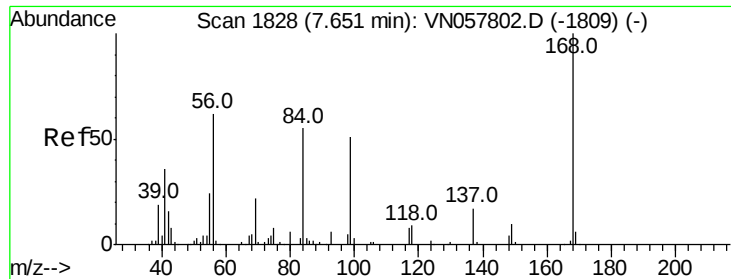
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091519\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

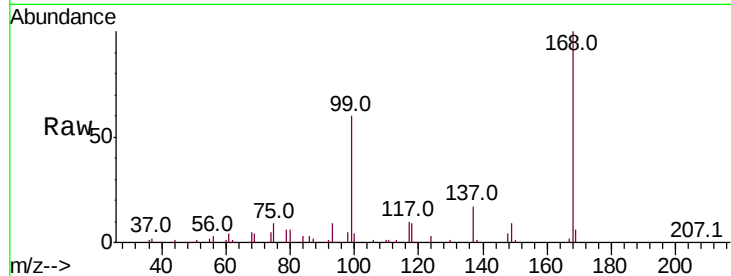
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 314931

Ion Ratio Lower Upper

168 100

99 60.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

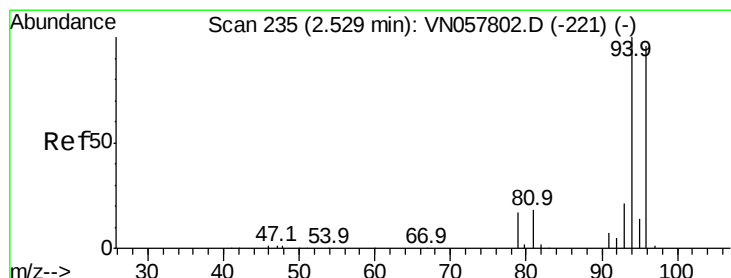
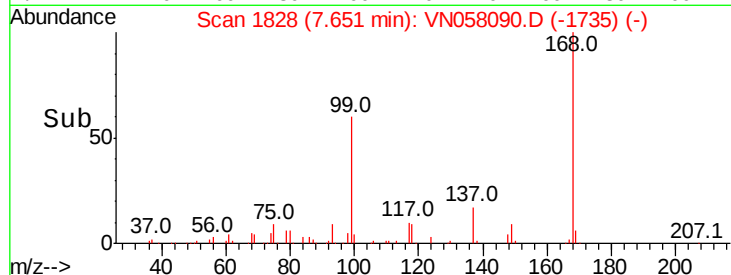
100000

50000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 243

Delta R.T. 0.03 min

Lab File: VN058090.D

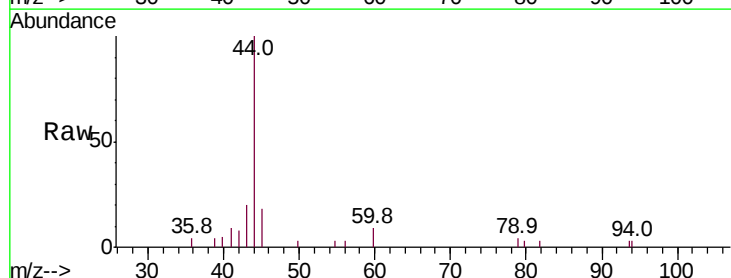
Acq: 15 Sep 2019 14:38

Tgt Ion: 94 Resp: 262

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

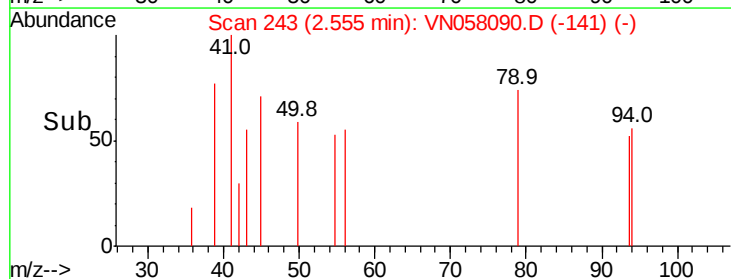
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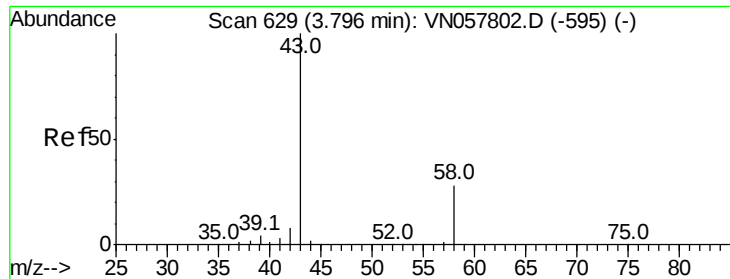
100

0

Time-->

2.54 2.56





#16

Acetone

Concen: 7.068 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

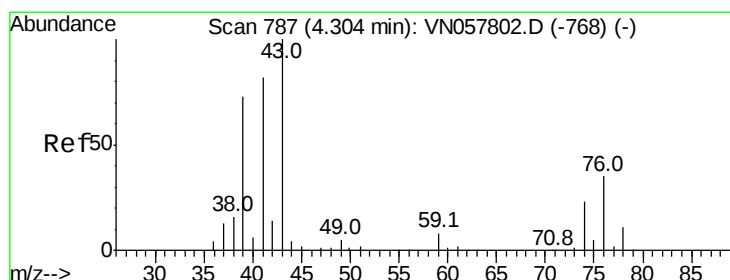
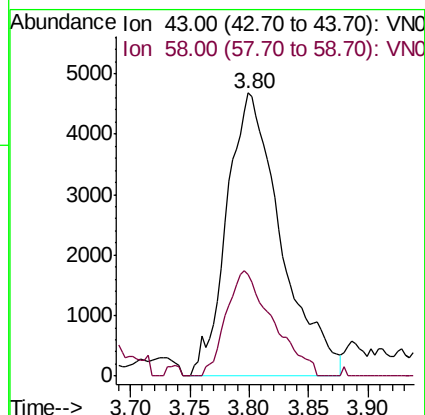
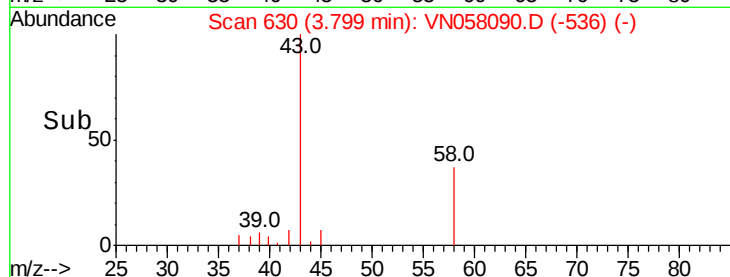
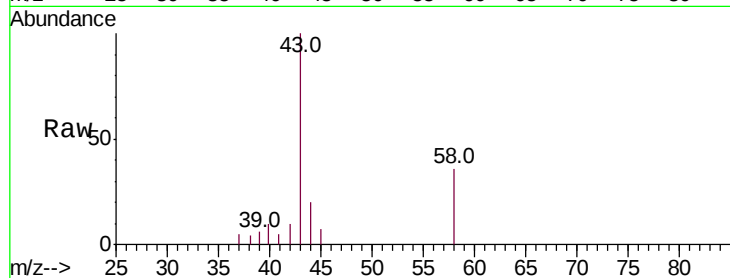
ClientSampled :

Tot Ion: 43 Resp: 14779

Ion Ratio Lower Upper

43 100

58 35.9 22.2 33.2#



#18

Methyl Acetate

Concen: 0.734 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN058090.D

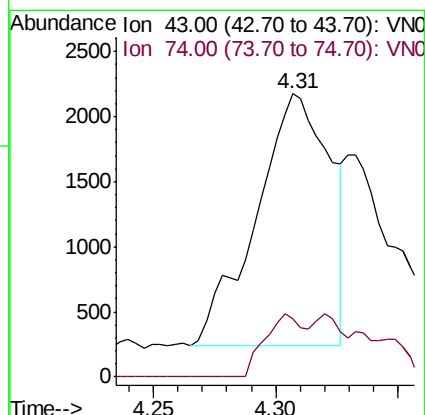
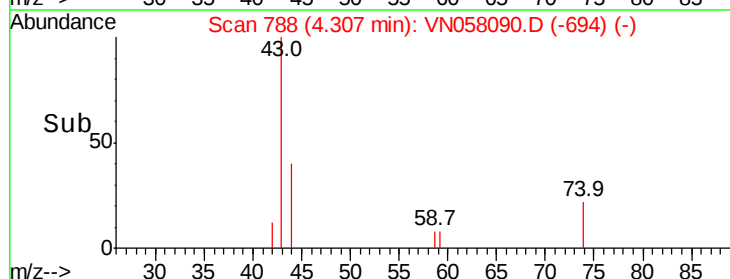
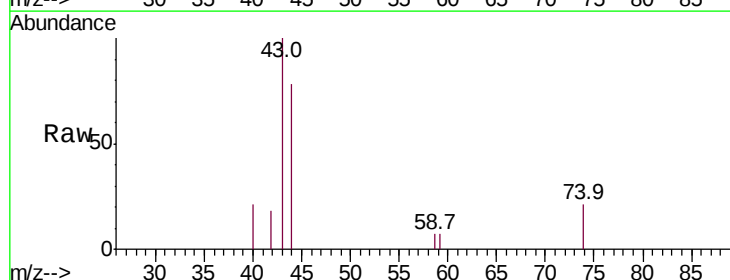
Acq: 15 Sep 2019 14:38

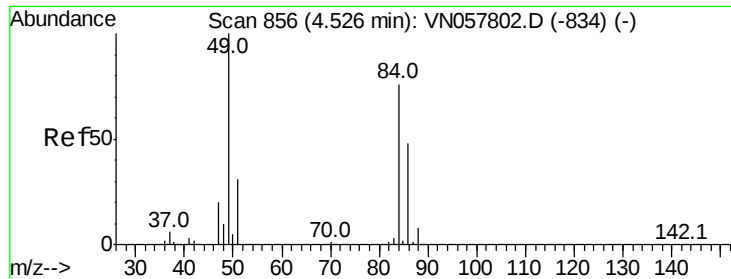
Tgt Ion: 43 Resp: 4093

Ion Ratio Lower Upper

43 100

74 13.6 17.9 26.9#

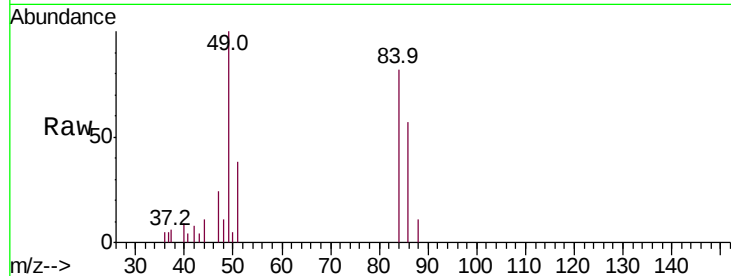




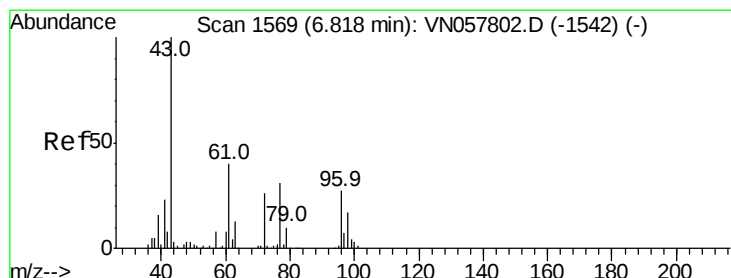
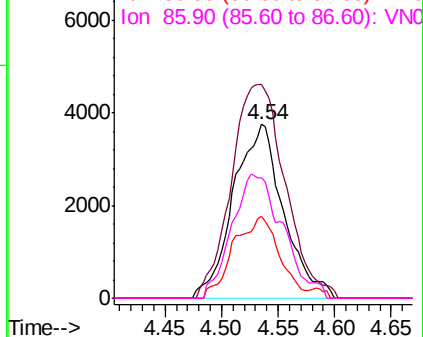
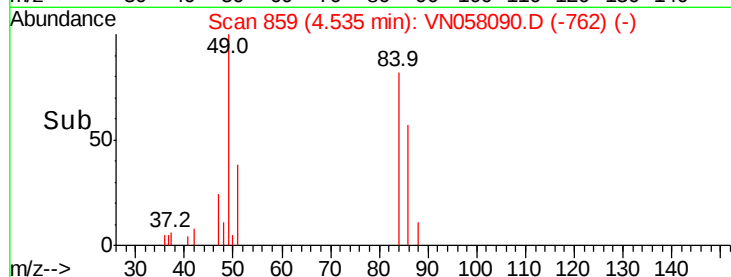
#20
Methylene Chloride
Concen: 1.710 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 11540
Ion Ratio Lower Upper
84 100
49 122.5 104.8 157.2
51 47.0 33.0 49.4
86 69.5 50.5 75.7

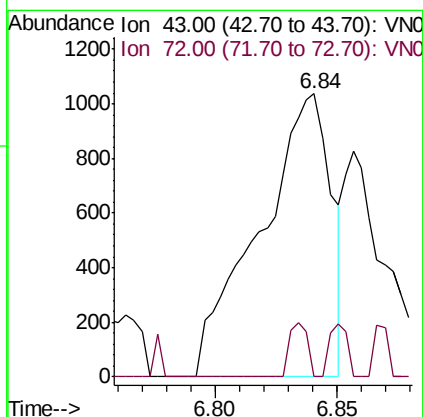
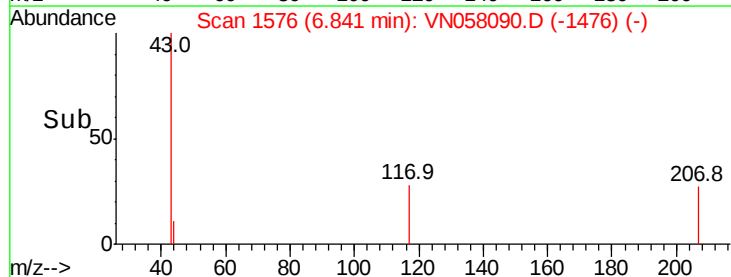
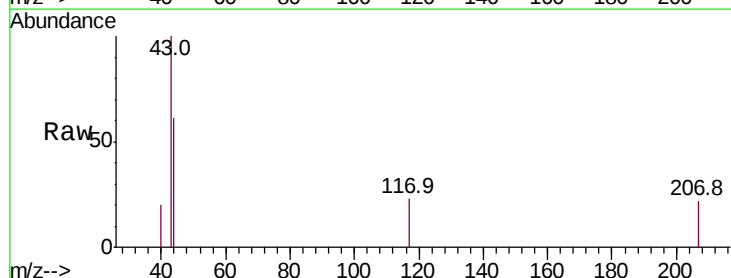


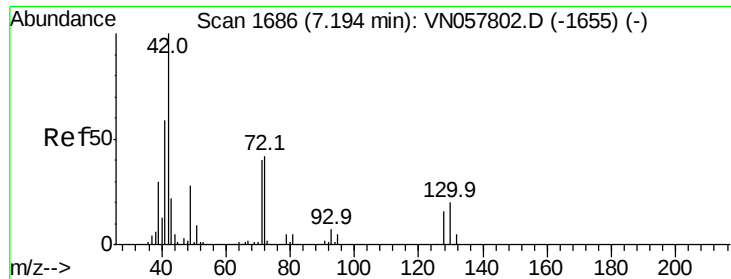
Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 0.697 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

Tgt Ion: 43 Resp: 2108
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#

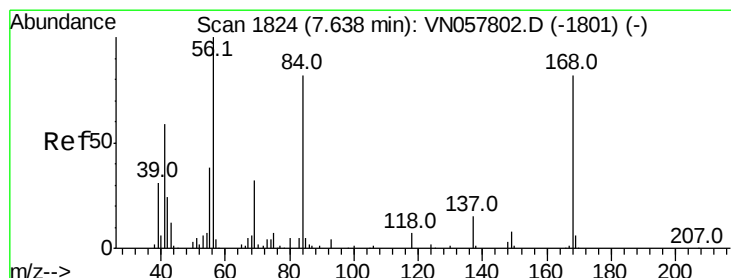
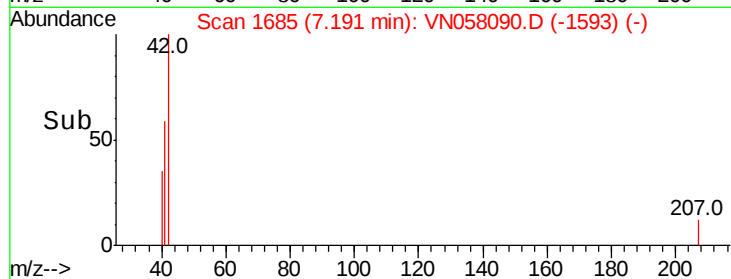
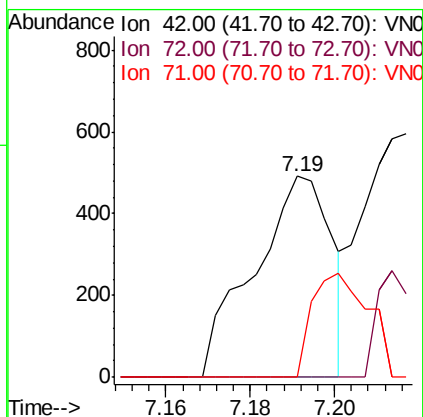
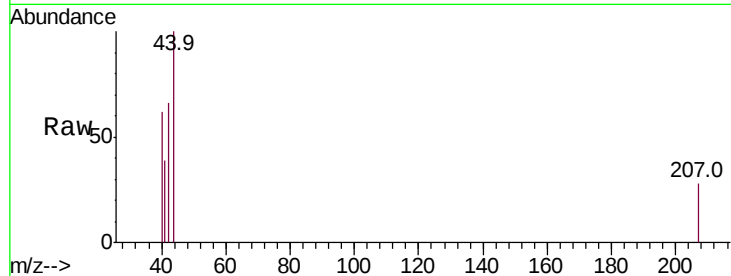




#29
Tetrahydrofuran
Concen: 0.335 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

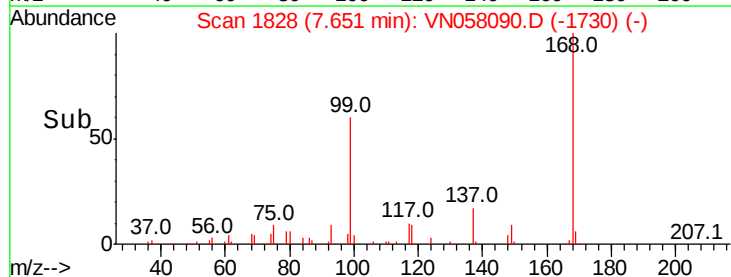
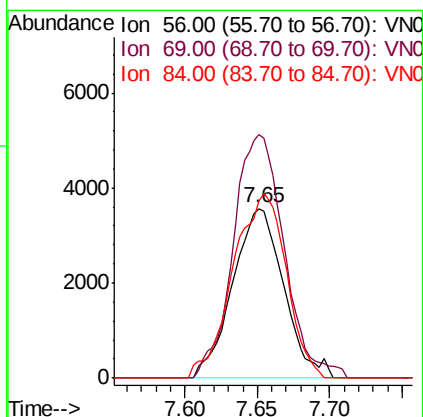
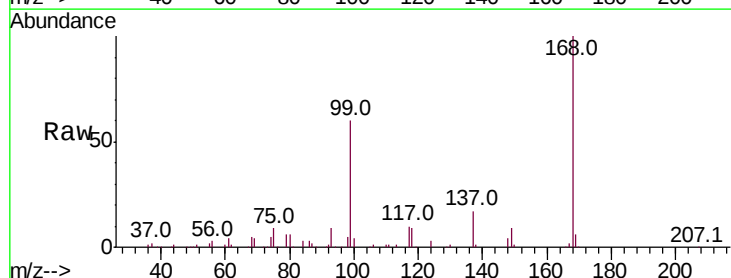
Instrument :
MSVOA_N
ClientSampleId :

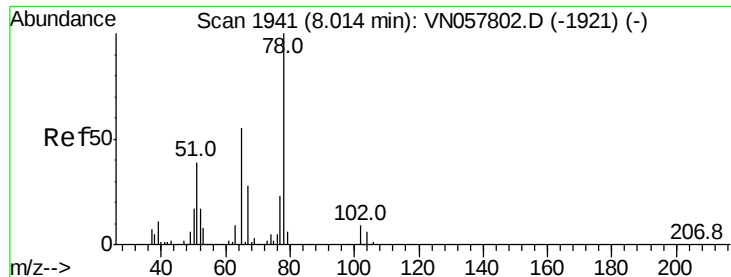
Tot Ion: 42 Resp: 624
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 37.8 31.9 47.9



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

Tgt Ion: 56 Resp: 8736
Ion Ratio Lower Upper
56 100
69 143.5 25.9 38.9#
84 104.2 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 57.035 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

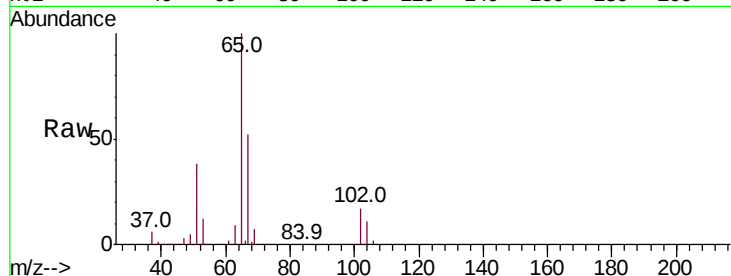
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 363808

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

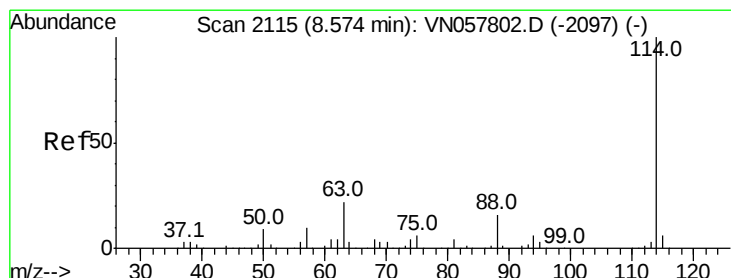
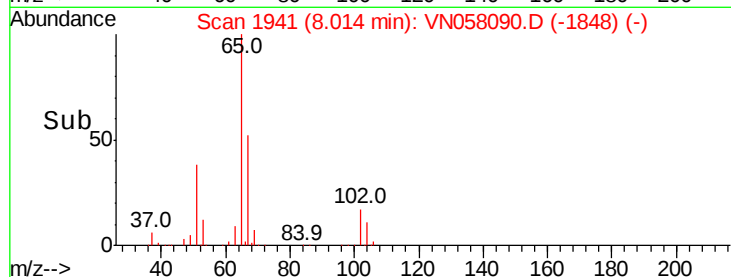
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

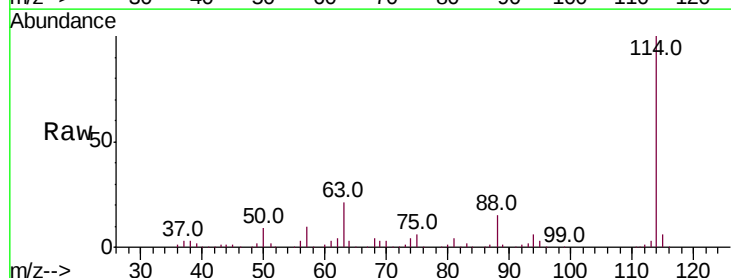
Tgt Ion: 114 Resp: 532379

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.0

88 15.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.57

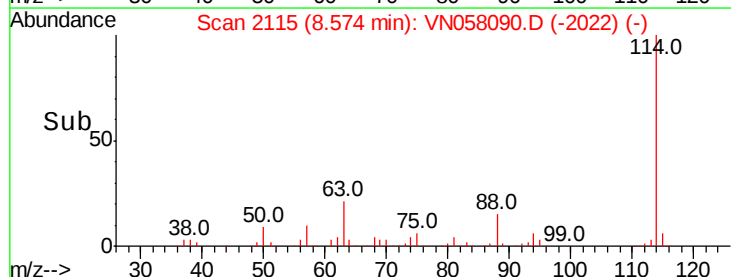
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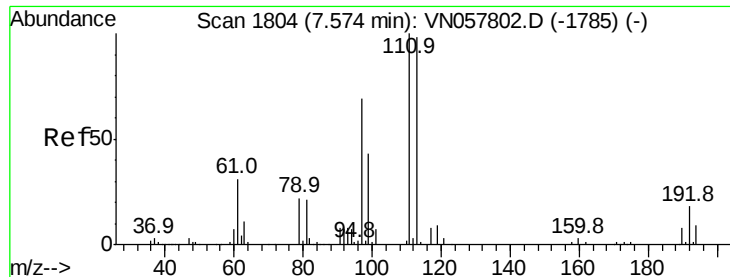
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.862 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :
MSVOA_N
ClientSampled :

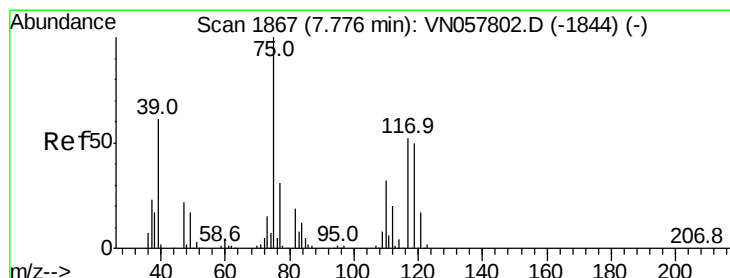
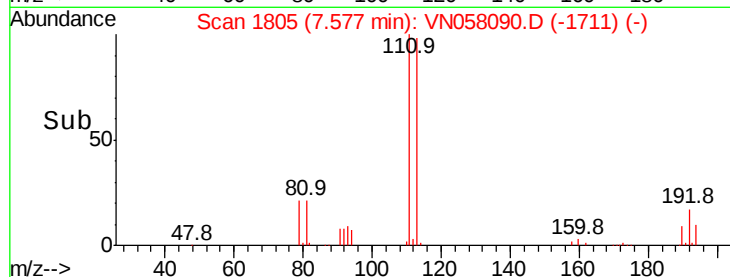
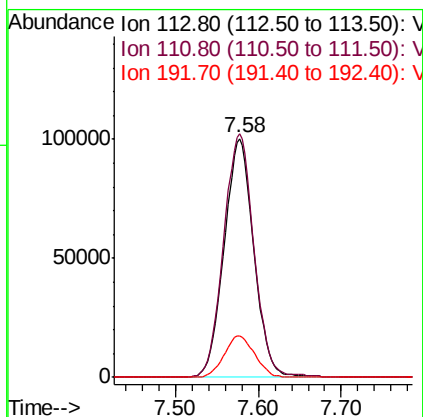
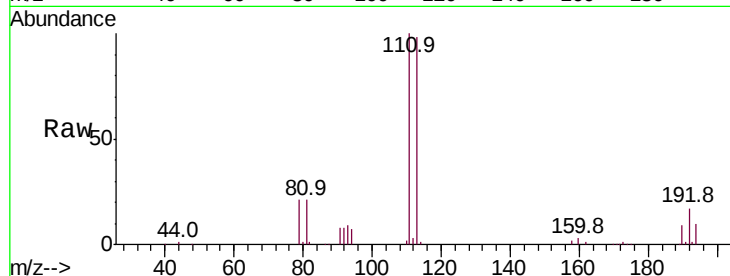
Tot Ion:113 Resp: 249919

Ion Ratio Lower Upper

113 100

111 104.2 81.3 121.9

192 17.7 14.6 22.0



#36

1,1-Dichloropropene

Concen: 4.579 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

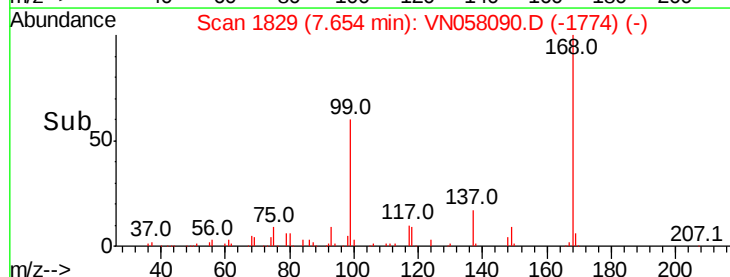
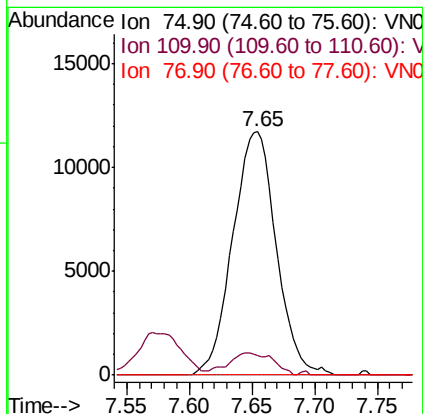
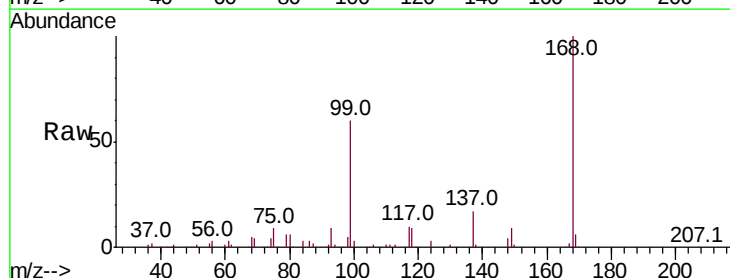
Tgt Ion: 75 Resp: 28269

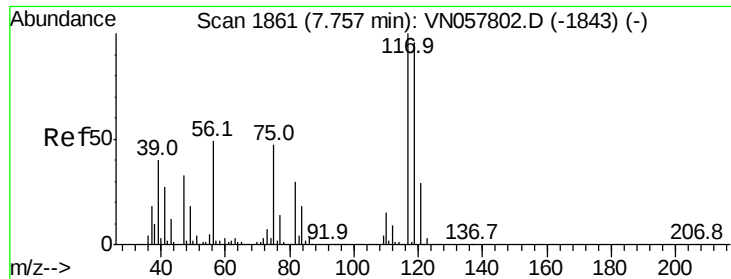
Ion Ratio Lower Upper

75 100

110 9.4 16.3 48.9#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.845 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

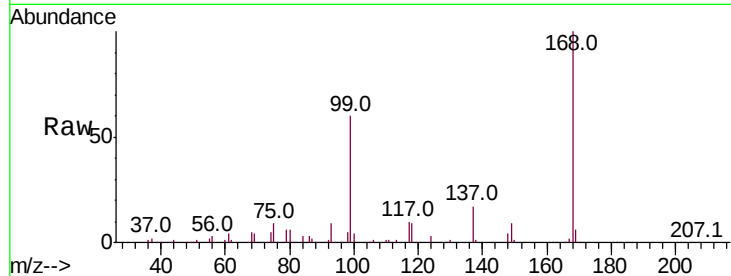
Tot Ion:117 Resp: 32951

Ion Ratio Lower Upper

117 100

119 4.6 76.9 115.3#

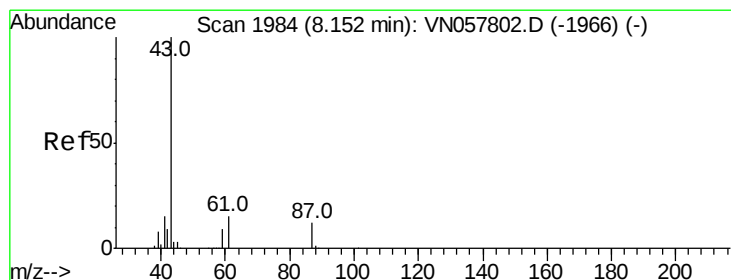
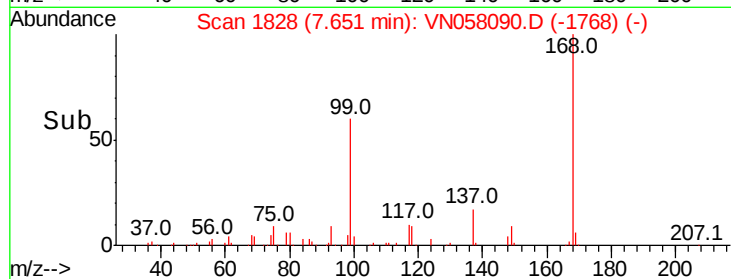
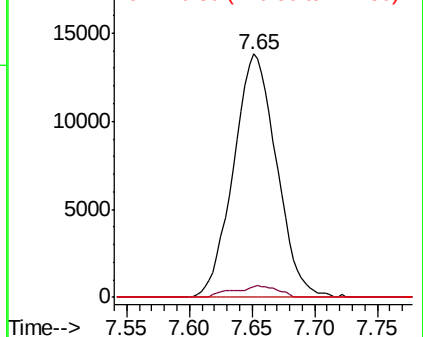
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 14.460 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

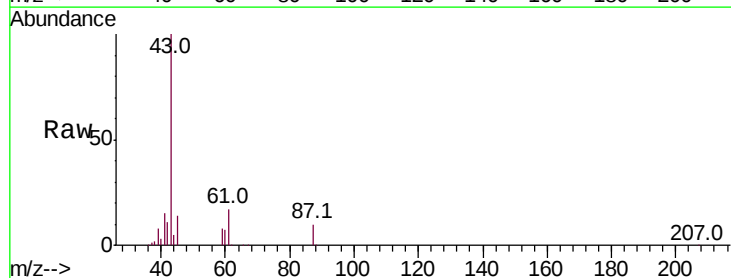
Tgt Ion: 43 Resp: 155118

Ion Ratio Lower Upper

43 100

61 14.3 20.1 30.1#

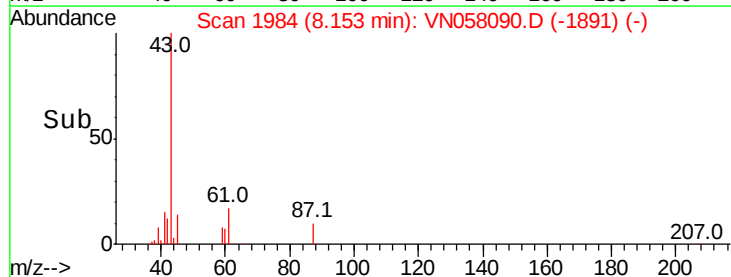
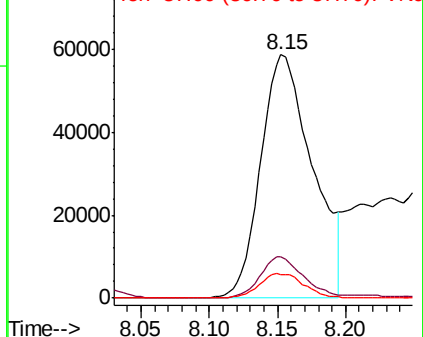
87 8.7 9.5 14.3#

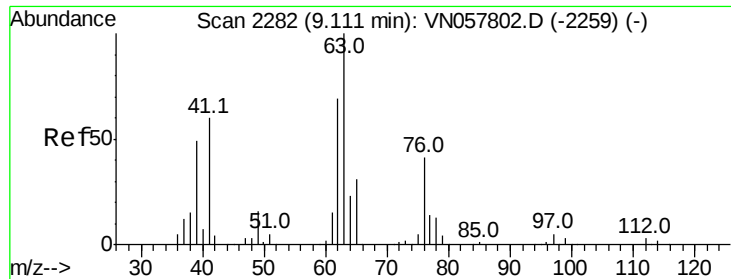


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

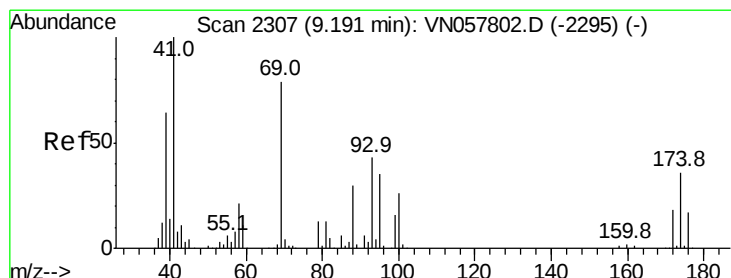
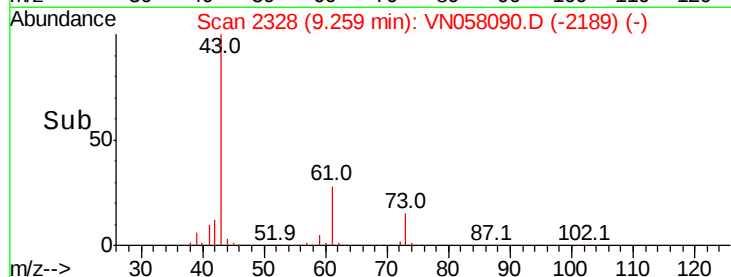
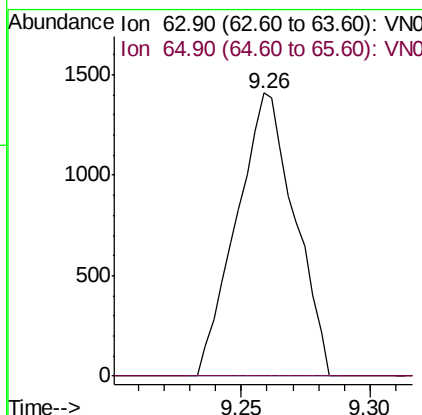
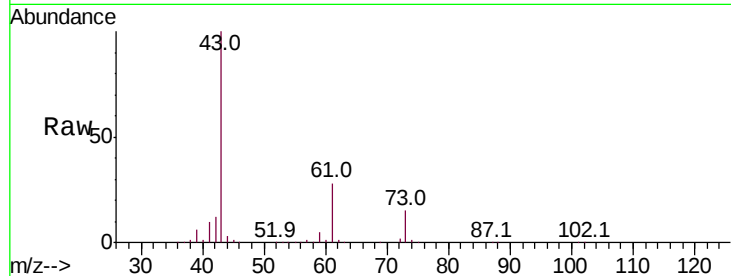




#45
 1,2-Dichloropropane
 Concen: 0.410 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058090.D
 Acq: 15 Sep 2019 14:38

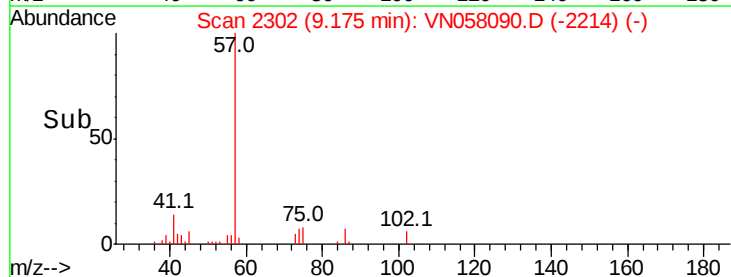
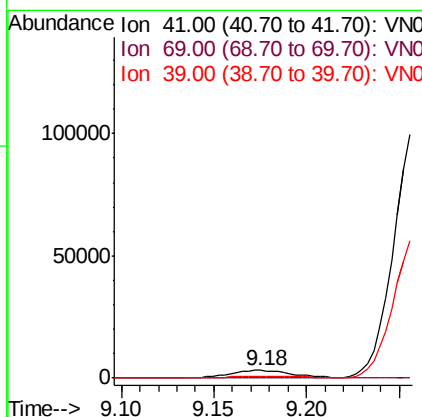
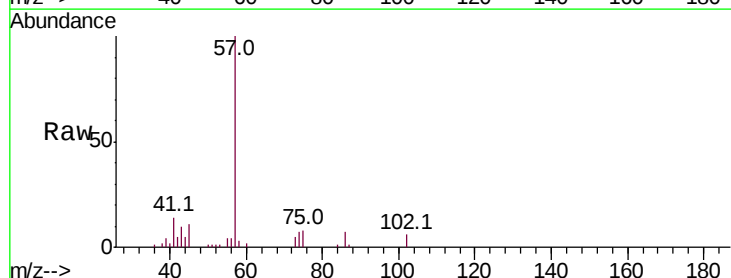
Instrument :
 MSVOA_N
 ClientSampled :

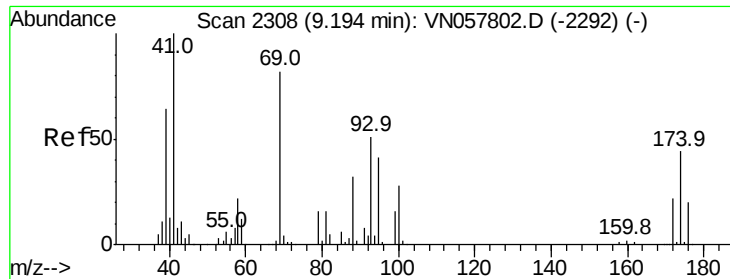
Tot Ion: 63 Resp: 2219
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 1.398 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN058090.D
 Acq: 15 Sep 2019 14:38

Tgt Ion: 41 Resp: 7606
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 0.0 52.7 79.1#





#49

1,4-Dioxane

Concen: 2.510 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.06 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

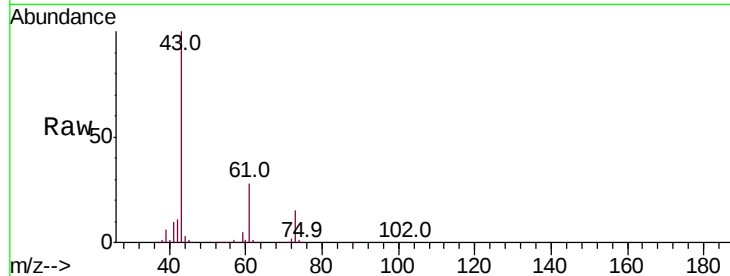
Tot Ion: 88 Resp: 231

Ion Ratio Lower Upper

88 100

43 859908.2 28.5 42.7#

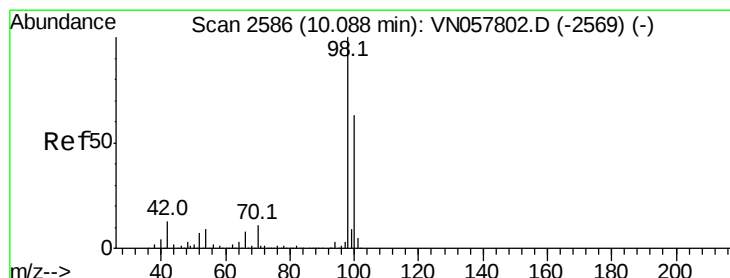
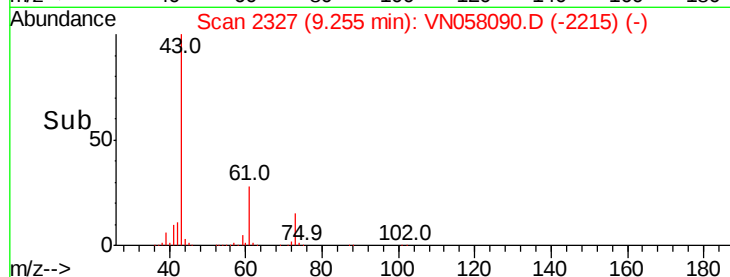
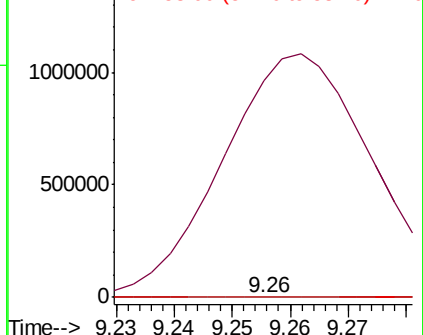
58 3825.5 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VN057802.D (-2292) (-)

Ion 43.00 (42.70 to 43.70): VN057802.D (-2292) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2292) (-)



#50

Toluene-d8

Concen: 52.003 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058090.D

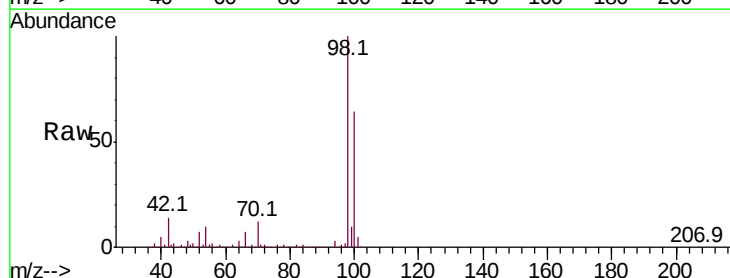
Acq: 15 Sep 2019 14:38

Tgt Ion: 98 Resp: 992088

Ion Ratio Lower Upper

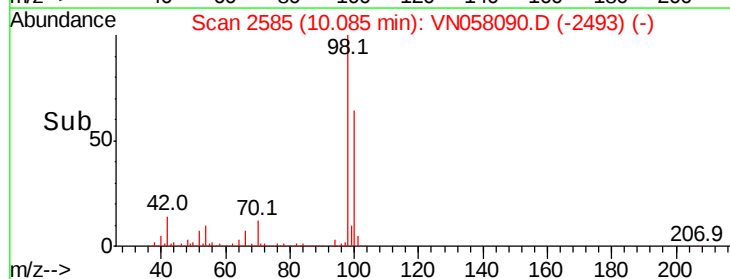
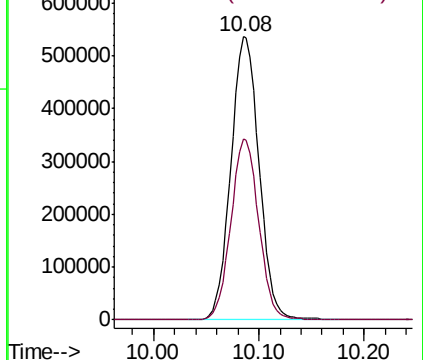
98 100

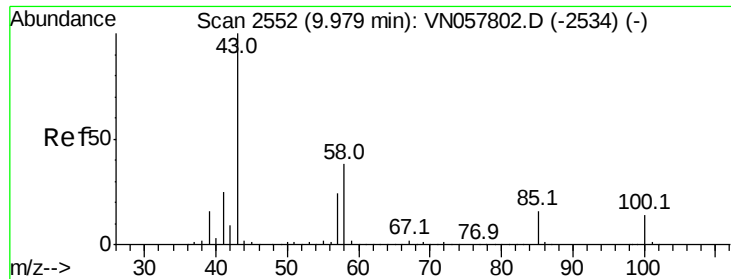
100 63.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 1.539 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

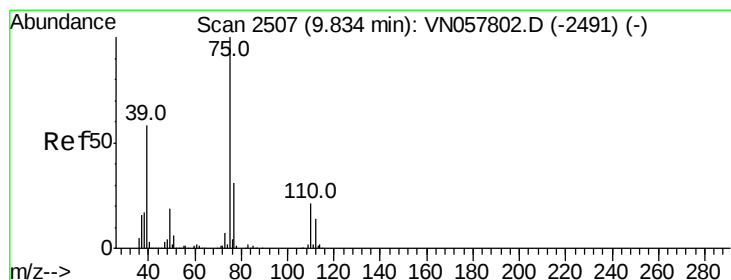
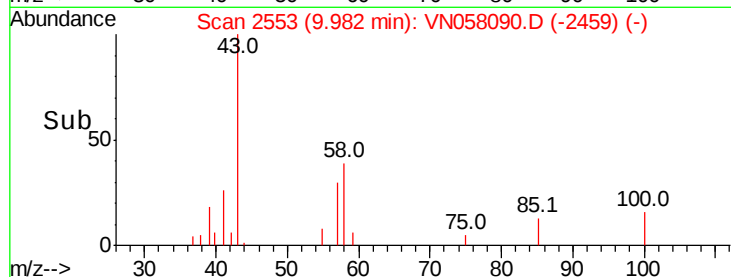
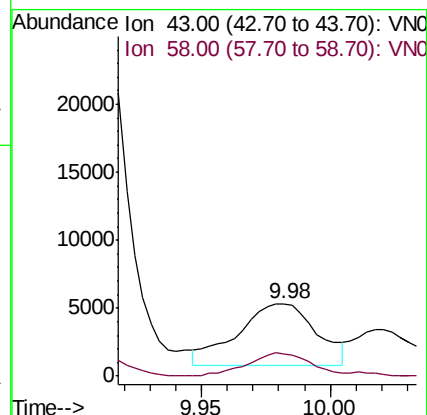
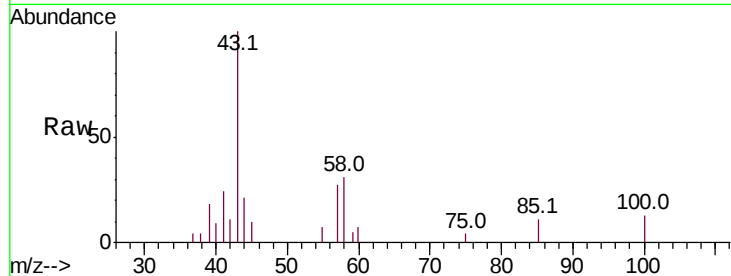
ClientSampled :

Tot Ion: 43 Resp: 9771

Ion Ratio Lower Upper

43 100

58 30.2 29.8 44.6



#54

cis-1,3-Dichloropropene

Concen: 6.668 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

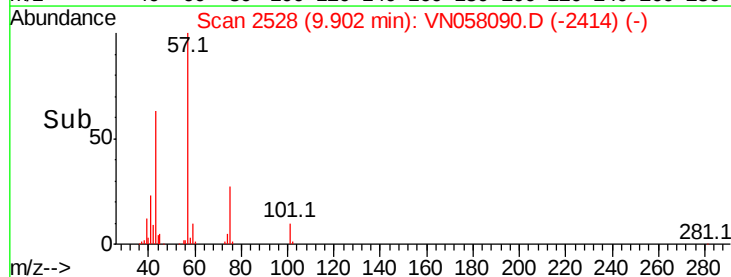
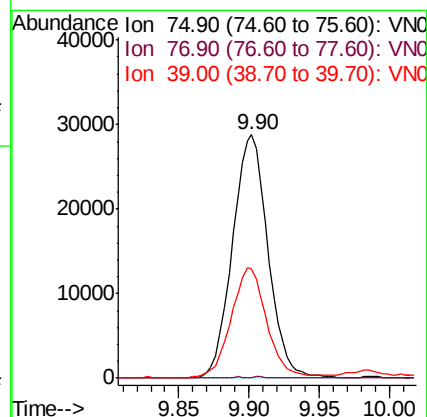
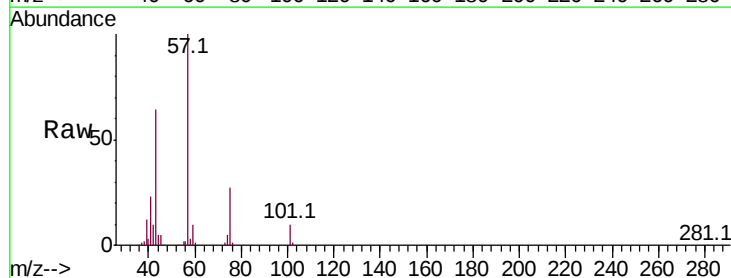
Tgt Ion: 75 Resp: 50602

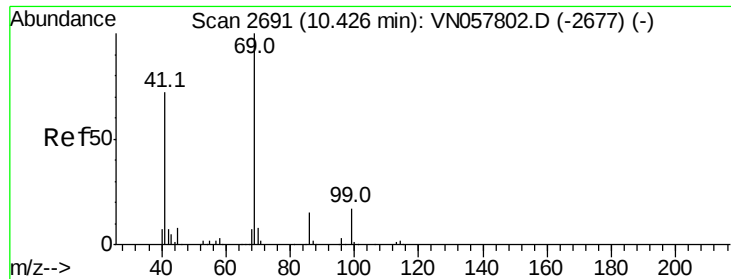
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 44.1 46.2 69.4#





#56

Ethyl methacrylate

Concen: 0.307 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

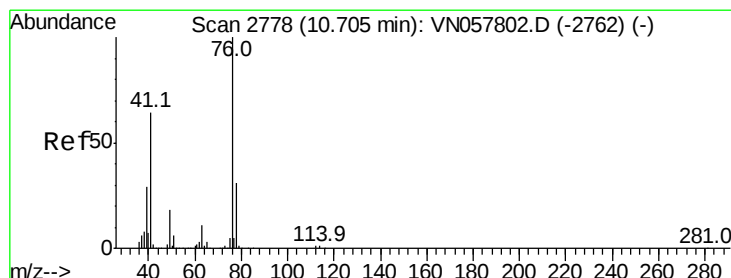
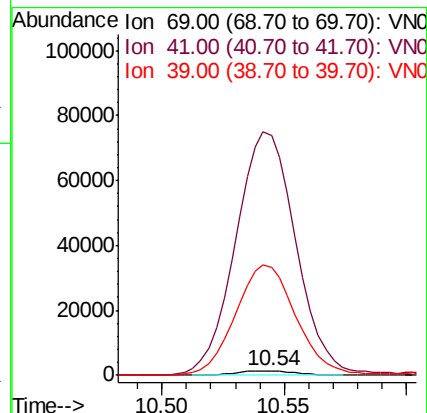
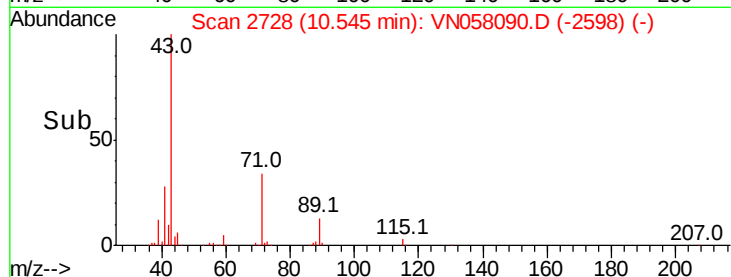
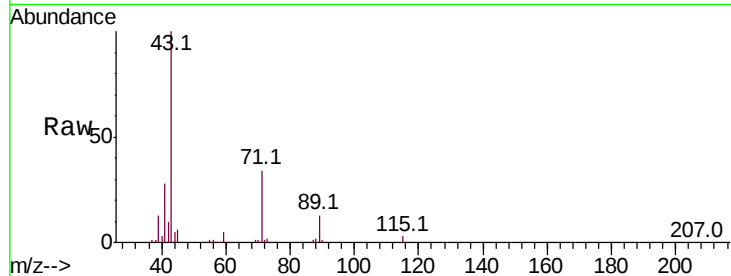
Tot Ion: 69 Resp: 2292

Ion Ratio Lower Upper

69 100

41 5594.3 56.7 85.1#

39 2572.3 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 1.019 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058090.D

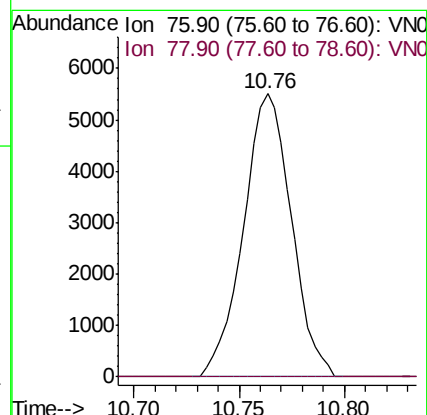
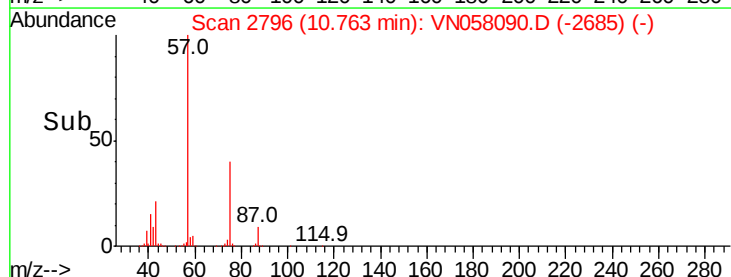
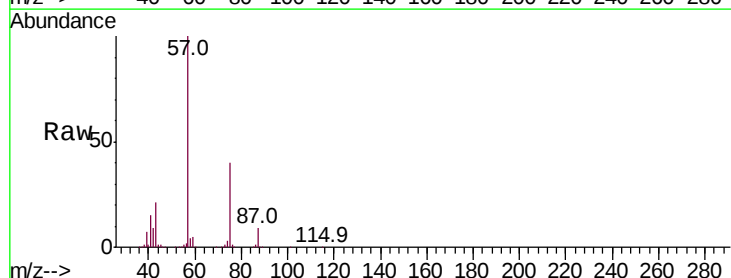
Acq: 15 Sep 2019 14:38

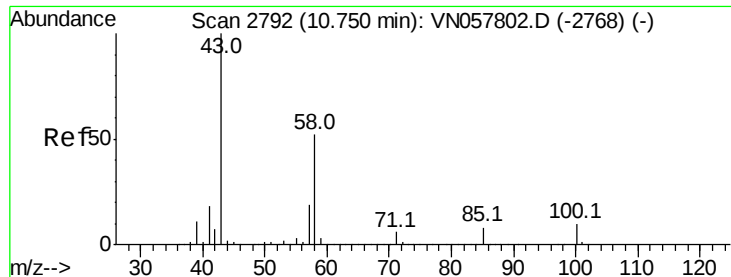
Tgt Ion: 76 Resp: 8707

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

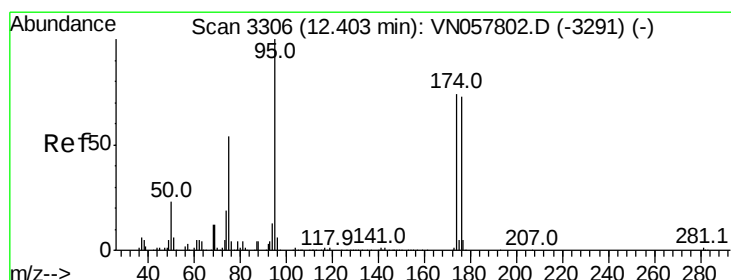
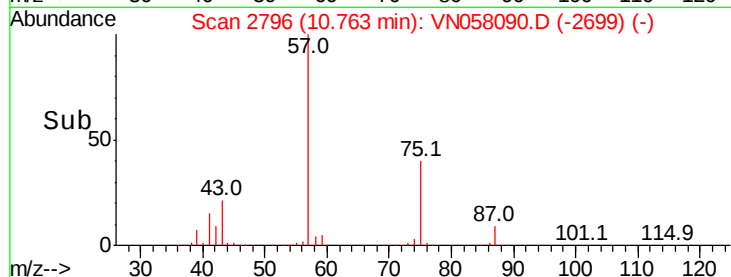
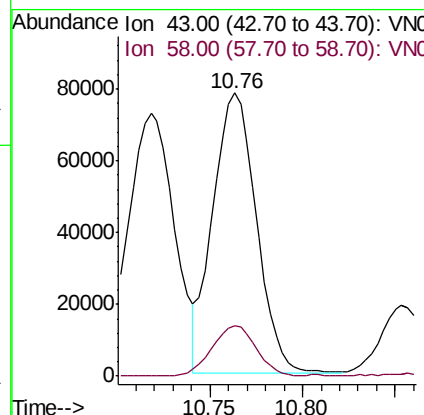
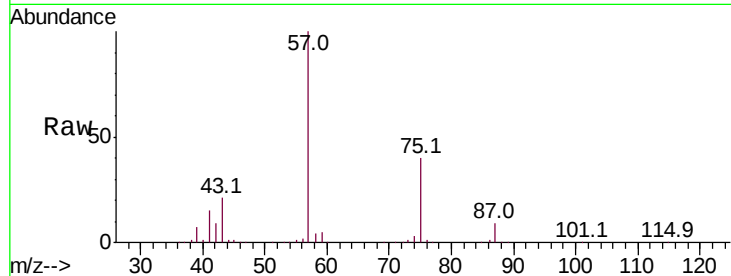




#59
2-Hexanone
Concen: 26.673 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

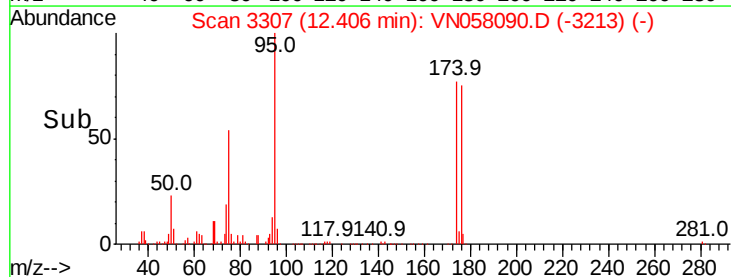
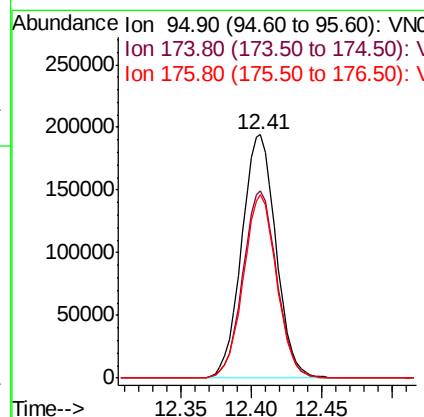
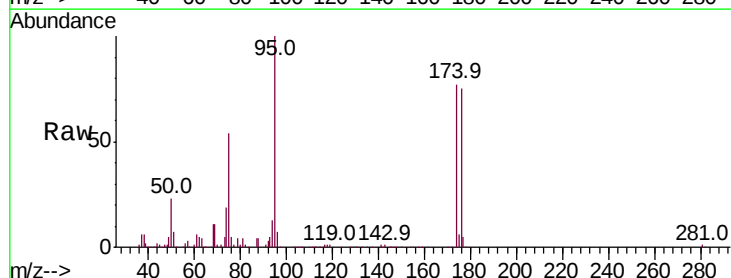
Instrument :
MSVOA_N
ClientSampleId :

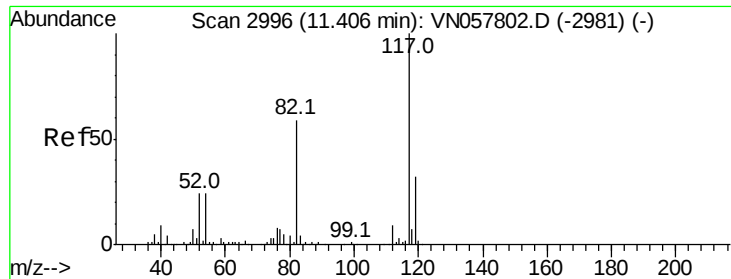
Tot Ion: 43 Resp: 126919
Ion Ratio Lower Upper
43 100
58 18.3 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 45.596 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058090.D
Acq: 15 Sep 2019 14:38

Tgt Ion: 95 Resp: 331490
Ion Ratio Lower Upper
95 100
174 76.3 0.0 150.2
176 73.1 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

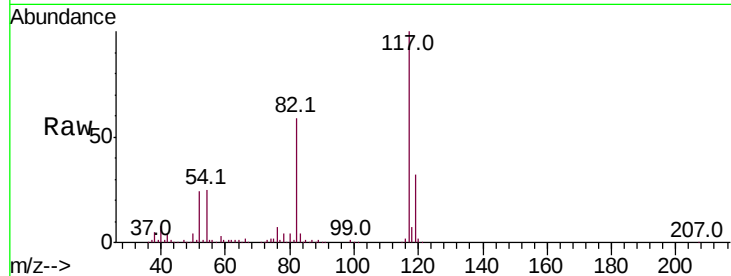
Tot Ion:117 Resp: 489356

Ion Ratio Lower Upper

117 100

82 59.1 47.2 70.8

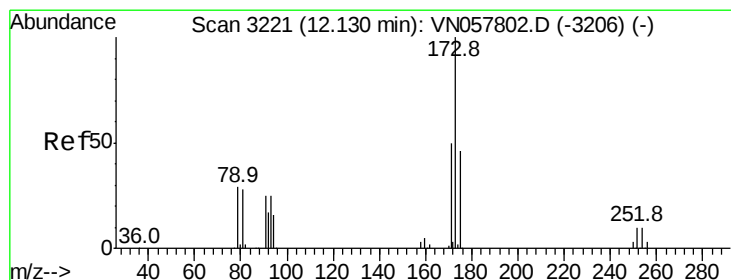
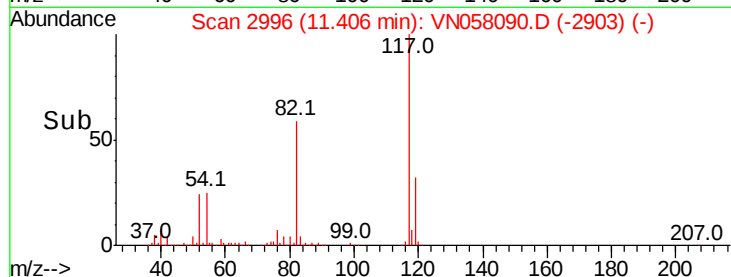
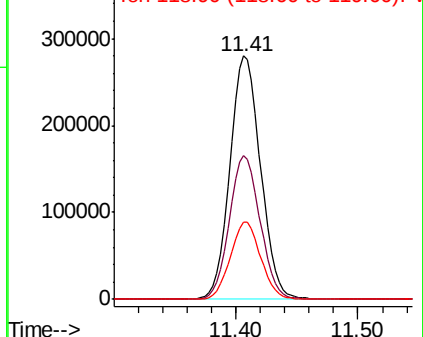
119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.320 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

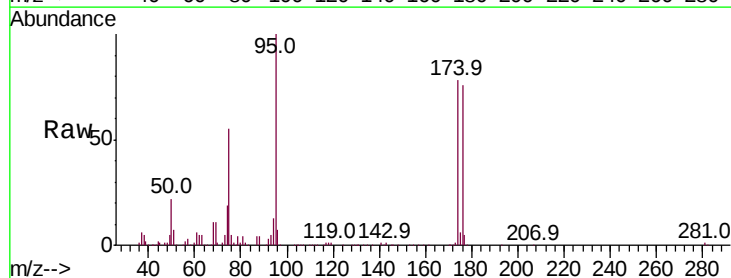
Tgt Ion:173 Resp: 886

Ion Ratio Lower Upper

173 100

175 1777.2 23.5 70.6#

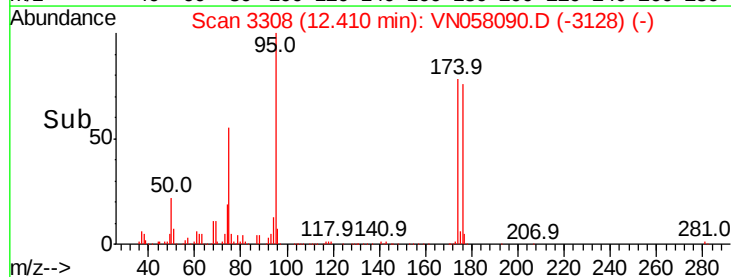
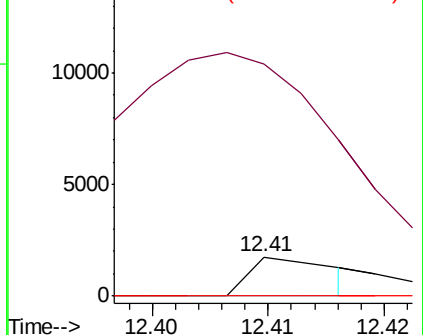
254 0.0 0.1 0.1#

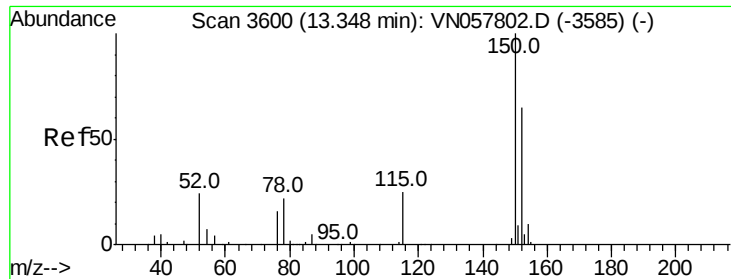


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampleId :

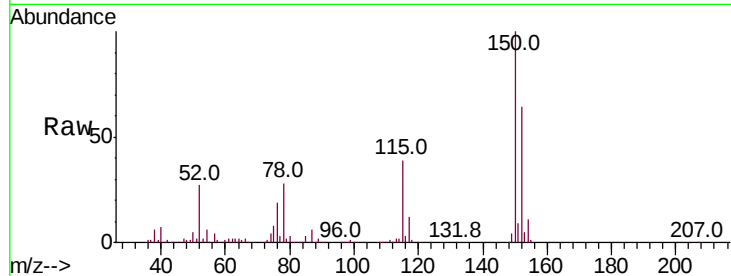
Tot Ion:152 Resp: 259460

Ion Ratio Lower Upper

152 100

115 61.6 30.3 91.0

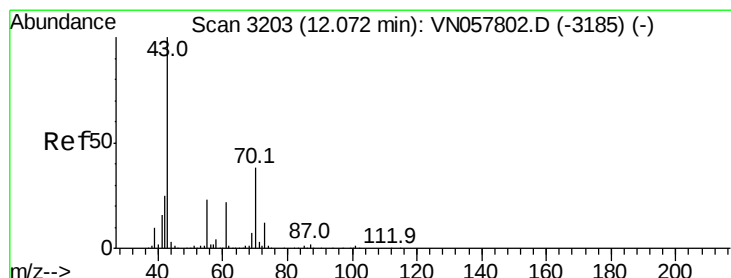
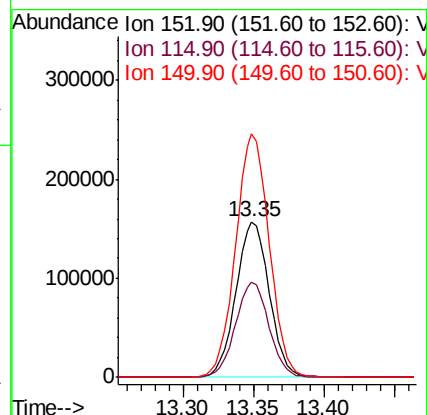
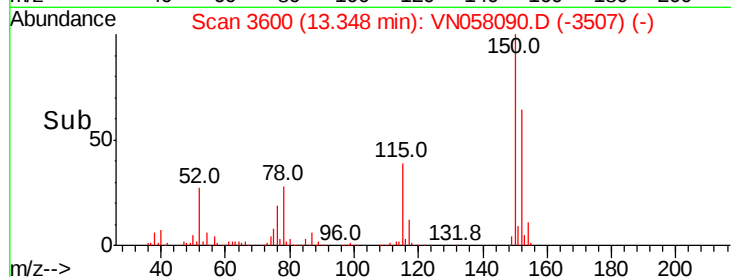
150 158.2 0.0 352.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.229 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Tgt Ion: 43 Resp: 2007

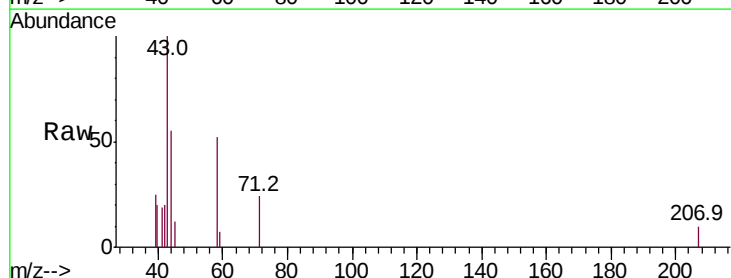
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 20.2 18.6 27.8

61 0.0 17.4 26.2#

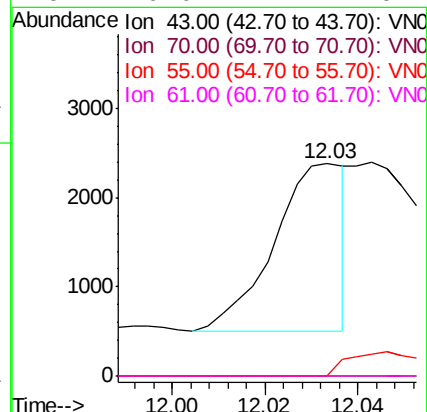
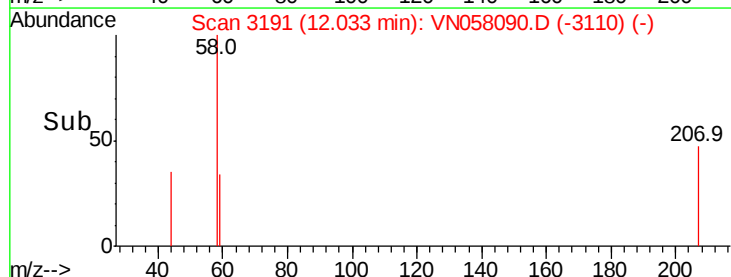


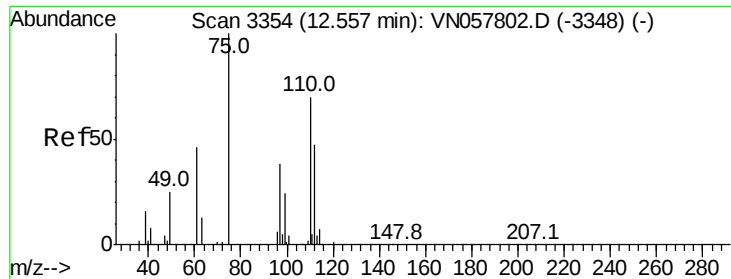
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.669 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

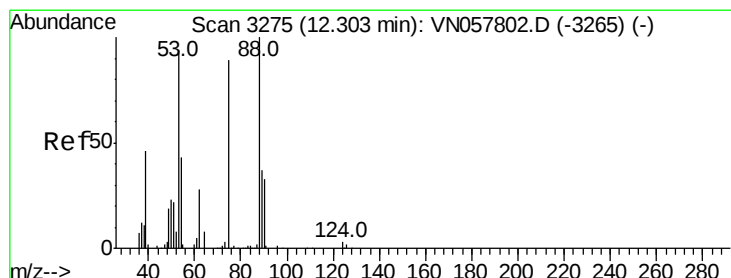
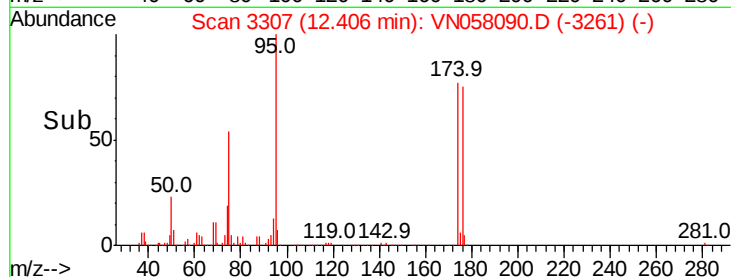
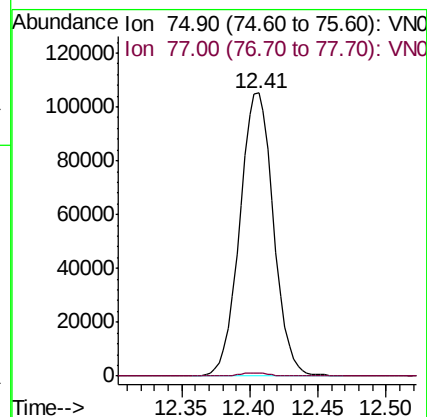
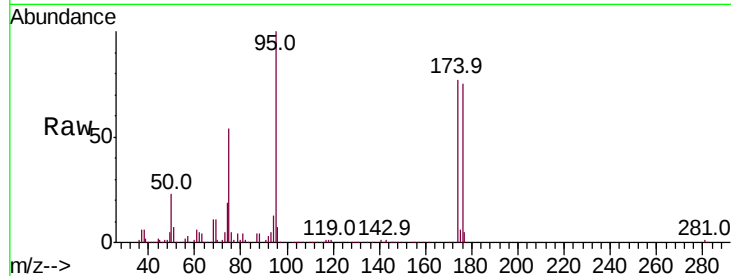
ClientSampleId :

Tot Ion: 75 Resp: 180008

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.924 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

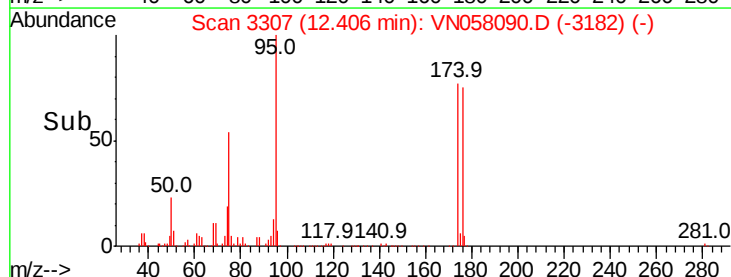
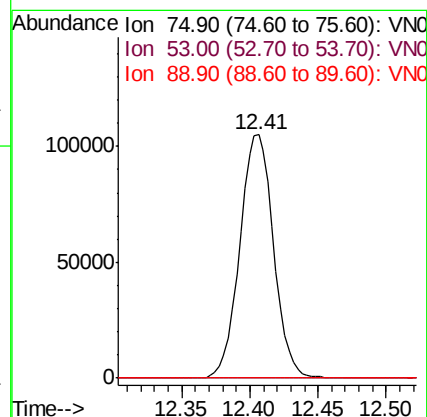
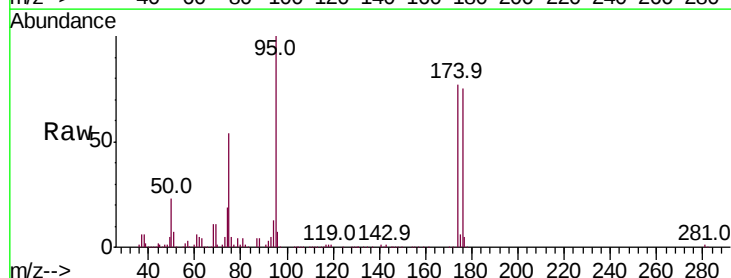
Tgt Ion: 75 Resp: 180008

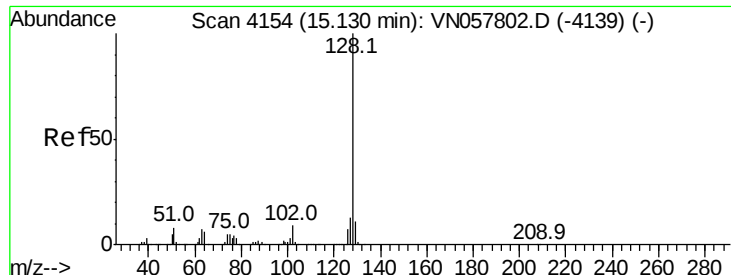
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058090.D

Acq: 15 Sep 2019 14:38

Instrument :

MSVOA_N

ClientSampled :

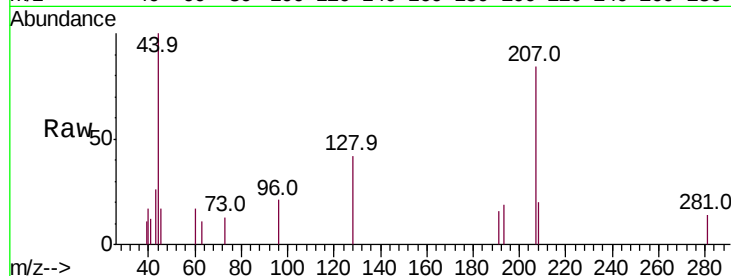
Tot Ion:128 Resp: 925

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

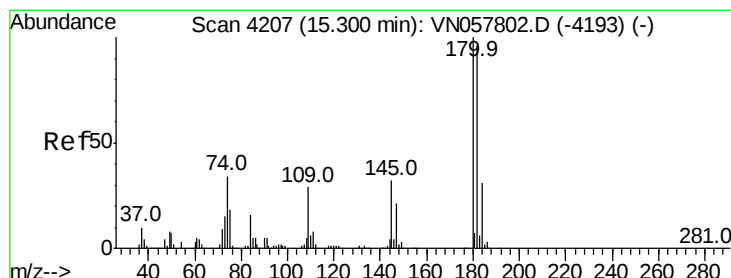
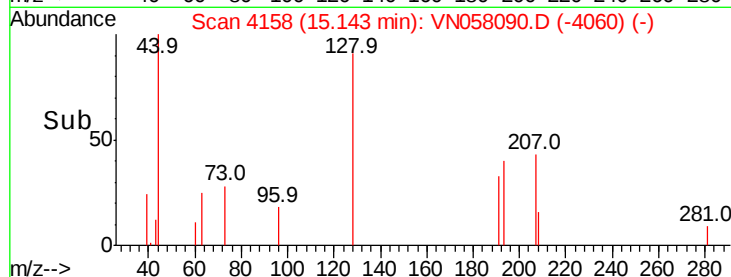
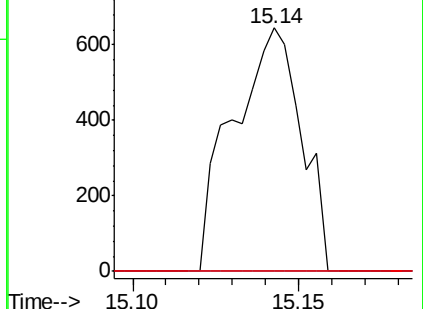
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 1.004 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.01 min

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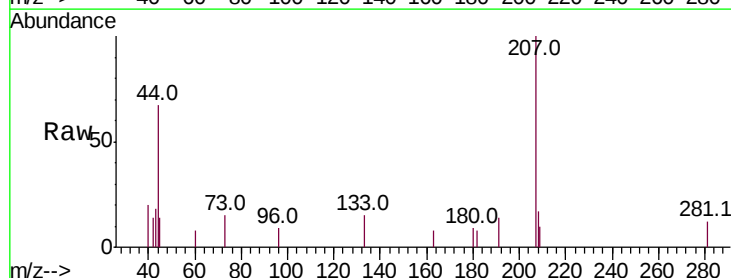
Tgt Ion:180 Resp: 33

Ion Ratio Lower Upper

180 100

182 197.0 48.3 144.8#

145 0.0 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

